



**RESTRICTED**

STAT

To unscramble the message a two-stage detector is used; the first-stage detector tube rectifies the carrier frequency of the circuit to correspond with that of the circuit which is dependent upon the oscillator tube. The oscillator tube generates a current of the same frequency as the incoming message, but of opposite phase, which enters the first-stage detector tube simultaneously with the incoming modulated current, thus eliminating it. The signal to the second-stage detector tube is the same as the high-frequency current of the original message. This current enters the second-stage converter creating a beat frequency which produces an audio-frequency current.

REGULATING DETECTION OF RADIO-FREQUENCY IN TUNING DEVICE -- Shantung Sheng-cheng-fu Kung-pao, No 40, 16 Feb 47

The Ministry of Economics issued in January 1947 a patent (36:564), application for which had been made 28 June 1946, granting sole manufacturing right for 3 years, to Yang Tsung-yu (Ueda: 5123, 2322, 8172), No 1 Ch'iu Shui-t'ang, (8187, 5952, 1819), Ch'ing-chiang Hsien (6290, 5985, 8972), Kiangsi, for a regulating tuning device to be used according to the method below.

This method consists of making common use of a single-tuned device between the radio-frequency amplifier tube of a radio receiver and the detector tube. This single-tuned instrument has a double-wound coil which acts the same as a tertiary winding. The result is the same as that of a triple-tuned transformer between the radio-frequency and detector stage.

- E N D -

**RESTRICTED**